```
local 1 = require"lib"
local the = {bins=8, ratios=256}
local about,col,data,row = {},{},{},{}
      function aka(klass, instance)
klass.__tostring = 1.cat
klass.__index = klass
return setmetatable(instance,klass) end
     local is= " "[a-2]", -- ratic cols start with uppercase goal = "[4-8]", -- !eklass, [*, -] *maximize, minimize klass = "$", -- klass if "!" skip = "$", -- skip if "!" less = "$", -- minimize if "-"
     function about.new(sNames)
local i = aka(about, (names=sNames, all={}), x={}, y={}, klass=nil})
for at,name in pairs (sNames) do
local one = l.push(i.all, col.new(name,at))
if not name:find(i.s.skip) then
l.push(name:find(i.s.skip) then
if name:find(i.s.spal) and i.y or i.x, one)
if name:find(_is.klass) then i.klass=one end end end
return i end
     function about.add(i,t)
local row = t.cells and t or row.new(i.about, t)
for _cols in pairs(i.x,i.y) do
  for _coll in pairs(cols) do
    col.add(coll, row.cells[coll.at]) end end
  return row end
        txt = txt or ""
return aka(col, {
    n = 0,
    return aka(col)
      function col.new(txt.at)
                         if i.isNom then
local mode.most=nil,-1
for k,v in pairs(i._has) do if v>most then mode.most=k,v end end
              return mode
         else
return 1.per(col.has(i),.5) end end
      function col.div(i)
        function col.div(i)
if i.isNom
then local e=0
for _v in pairs(i._has) do
    if v>0 then e=e-v/i.n*math.log(v/i.n,2) end end
returne
else local t=col.has(i)
return (l.per(t, 9) - 1.per(t, 1))/2.56 end end
      function col.has(i)
        if i.isNom then return i._has end
if i.ok=Nom then table.sort(i._has) end
i.ok=true
return i._has end
      function col.where(i,x, a,b,lo,hi)
  if i.nom then return x else
              a = has(i),

lo,hi = a[1], a[#a]

b = (hi - lo)/the.bins

return hi==lo and 1 or math.floor(x/b+.5)*b end end
    function col.norm(i,num)
local a= has(i) -- "a" contains all our numbers, sorted.
return a[#a] - a[1] < 1E-9 and 0 or (num-a[1))/(a[#a]-a[1]) end</pre>
      function row.new(about,t)
         return aka(row, {_about=about, cells=t, cooked=1.map(t,1.same)}) end
      function row.better(i,j)
        runction row.better(i,j)
i.evaled,j.evaled=true,true
local sl,s2,d,n,x,y=0,0,0,0
local ys,e = i_about.y,math.exp(l)
for _,col in pairs(ys) do
    x,y= i.ecls[s[col.at], j.cells[col.at]
    x,y= col.norm(col,x), col.norm(col,y)
    sl = sl = e^*(col.w * (x-y)/4ys)
    s2 = s2 = e^*(col.w * (y-x)/4ys) end
return s2/4ys < sl/4ys end</pre>
    function data=(}
function data.new(t)
return aka(data,{rows={}}, about=about.new(t) }) end
     function data.add(i,t)
   if i then 1.push(i.rows, about.add(i.about,t)) else i=data.new(t) end
   return i end
     function data.load(sFilename, i)
  l.csv(sFilename, function(row) i=data.add(i,row) end)
  return i end
function data.mid(i) return 1.map(i.about.y, col.mid) end
    function data.bins(i)
  for _,col in pairs(i.about.x) do
    for _,row in pairs(i.rows) do
    local x = row.cells[col.at]
```